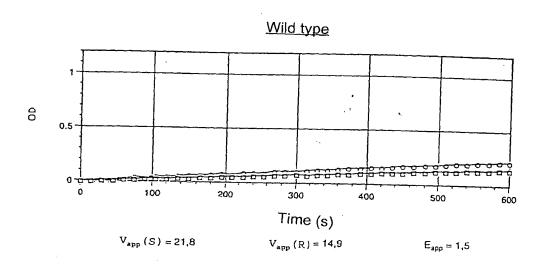
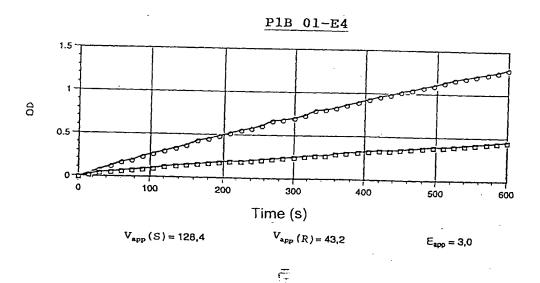
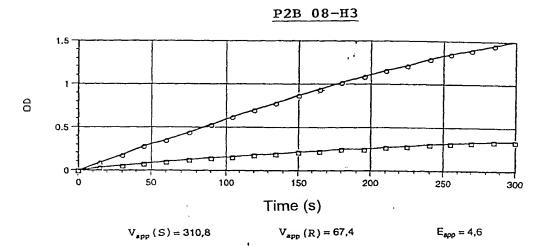


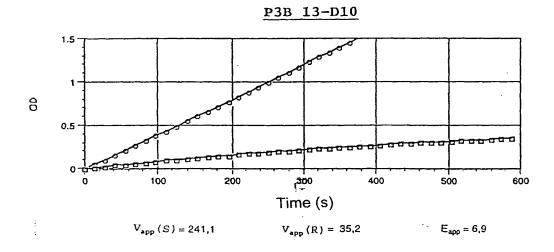
Fig. 1

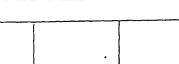




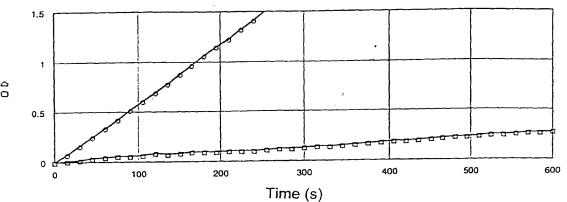








P4B 04-H3

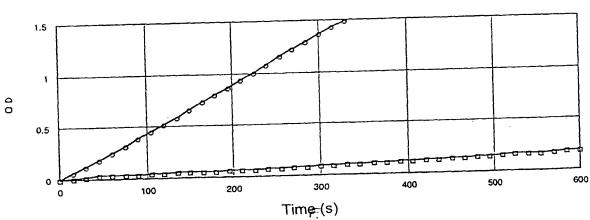


$$V_{app}$$
 (S) = 355,6

$$V_{app}(R) = 26.5$$

$$E_{app} = 13,4$$

### P5B 14-C11

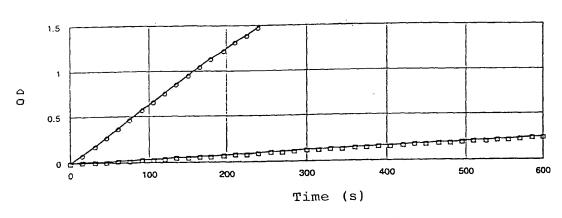


$$V_{app}(S) = 275.9$$

$$V_{app}(R) = 17.3$$

$$E_{app} = 15.9$$

# P4BSF 03-G10



 $V_{app}(S) = 384,7$ 

$$V_{app}$$
 (R) = 25,3

$$E_{app} = 15.2$$

# Fig. 2

											10										
Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	9999999	00000000	A A A A A A A	T T T T T T T T T T T T T T T T T T T	00000000	00000000	00000000	00000000		00000000	00000000	T T T T T T T T T T T T T T T T T T T	T T T T T T T T T T T T T T T T T T T	00000000	T T T T T T T T T T T T T T T T T T T	00000000	00000000	00000000	00000000	00000000	19 20 20 20 20 20 20 20
	20										30	•									
Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	***	A A A A A A A	99999999	6666666	A A A A A A A	T T T T T T T T T T T T T T T T T T T	T T T T T T T T	00000000	00000000	00000000	-00000000	00000000	6666666	A A A A A A A	TTTTTTTT	00000000	6666666	00000000	T T T T T T T T	0000000	39 40 40 40 40 40 40
	40										50										
Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	-00000000	00000000	A A A A A A A	00000000	99999999	A A A A A A A	00000000	9999999	00000000	00000000	00000000	00000000	00000000	00000000	T T T T T T T T	00000000	00000000	6666666	00000000	00000000	59 60 60 60 60 60 60
	60										70										
Wild type  P1B 01-H1  P1B 01-E4  P2B 08-H3  P3B 13-D10  P4B 04-H3  P5B 14-C11  P4BSF 03-G10	-00000000	00000000	A A A A A A A	T T T T T T T T T T T T T T T T T T T	00000000	A A A A A A A	A A A A A A A	00000000	00000000	TTTTTTTT	90000000	A A A A A A A	G G	A A A A A A A	TTTTTTT	0000000	A A A A A A A	00000000	A A A A A A A	A A A A A A A	79 80 80 80 80 80 80
	80										90										
Wild type p1B 01-H1 p1B 01-E4 p2B 08-H3 p3B 13-D10 p4B 04-H3 p5B 14-C11 p4BSF 03-G10	00000000	A A A A A A A	A A A A A A A	00000000	A A A A A A A	T T T T T T T T T	9999999	AAAAAAA	AAAAAAA	00000000	A A A A A A A	A A A A A A A	00000000	***	A A A A A A A	00000000	7777777	0<0000000	T T T T T T T T T T	00000000	99 100 100 100 100 100 100
	100	)									110	)									
Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11	+ + + + + + + + + + + + + + + + + + + +	G G G	CCC		С	C	C	00000	00000000	T T T T T T T T T	00000000	99999	00000000	000000	00000000	T T T T T T T T T T T T T T T T T T T	000000	00000000	000000	000000	119 120 120 120 120 120 120 120
P4BSF 03-G10																					

### 120 130 c ¥ 00000000 00000000 00000000 00000000 00000000 00000000 99999999 00000000 TTTTTTT Wild type 0000000 TTTTTTT TTTTTTT TTTTTTT 66666 140 0000000 6666666 T T T T T T T TTTTTTT 6666666 P1B 01-H1 ~ ~ ~ ~ ~ ~ 140 P1B 01-E4 140 P2B 08-H3 140 P3B 13-D10 140 P4B 04-H3 140 P5B 14-C11 140 P4BSF 03-G10 150 140 400000000 T 00000000 AAAAAAA 00000000 G G 159 00000000 00000000 00000000 **AAAAAA** 00000000 00000000 TTTTTTT Wild type 00000000 00000000 00000000 A A A A A A A G TTTTTTT G 160 TTTTTTT P1B 01-H1 160 P1B 01-E4 G 160 P2B 08-H3 G 160 P3B 13-D10 GGG G 160 P4B 04-H3 160 P5B 14-C11 P4BSF 03-G10 170 160 000000000 G С 179 A A A A A A A A 00000000 00000000 400000000 A A A A A A A 00000000 A A A A A A A AAAAAAA 00000000 00000000 A A A A A A A G 000000000 A A A A A A A 00000000 Wild type TTTTTTT 9999999 0000000 P1B 01-H1 P1B 01-E4 9999999 180 000000 180 P2B 08-H3 180 13-D10 P3B 180 P4B 04-H3 180 PSB 14-C11 P4BSF 03-G10 180 190 G \*\*\*\*\* 9999999 00000000 TTTTTTTT TTTTTTT 00000000 00000000 000000000 00000000 9999 TTTTTTT A A A A A A A 00000000 **AAAAAAA** A A A A A A A \*\*\* TTTTTTT Wild type 66666 666666 0000000 P1B 01-H1 200 P1B 01-E4 200 P2B 08-H3 200 P3B 13-D10 900 200 P4B 04-H3 200 P5B 14-C11 P4BSF 03-G10 210 200 G G 219 400000000 00000000 00000000 000000000 00000000 00000000 00000 TTTTTTTT 00000000 TTTTTTTT TTTTTTT 00000000 00000000 A A A A A A A A A A A A A A A GGGG TTTTTTT Wild type 00000000 00000000 220 P1B 01-H1 P1B 01-E4 220 G 220 P2B 08-H3 220 GGGG P3B 13-D10 220 GGG P4B 04-H3 G 220 P5B 14-C11 G 220 P4BSF 03-G10 230 220 CCCTTTTT -AAAAAA GGG C 6666666 GGGG A A A A A A A 00000000 6666666 00000000 TTTTTTTT 00000000 A A A A A A A TTTTTTTT 00000000 TTTTTTTT Wild type 0000000 000000000 AAAAAA CCCC A A A A A A P1B 01-H1 240 P1B 01-E4 240 GGG P2B 08-H3 240 G G P3B 13-D10 240 CCC P4B 04-H3 Ğ 240 P5B 14-C11 P4BSF 03-G10

### 250 240 Wild type 00000000 00000000 00000000 00000000 G 00000000 A A A A A A A TTTTTTT **ドアTTTTTT** 00000000 **AAAAAA** AAAAAAA 00000000 00000000 00000000 TTTTTTT 0 0 0 0 A 0 0 TTTTTT 999999 TTTTTTT P1B 01-H1 260 01-E4 P1B 260 08-H3 260 13-D10 260 P4B 04-H3 260 P5B 14-C11 P4BSF 03-G10 260 270 400000000 00000000 Wild type 00000000 00000000 00000000 A A A A A A A 00000000 00000000 0000000 279 90000000 00000000 00000000 00000000 00000000 TTTTTTT 00000000 TTTTTTT TTTTTTT TTTTTT 999999 01-E4 P1B 280 P2B 08-H3 280 13-D10 P3B 280 P4B 04-H3 280 P5B 14-C11 P4BSF 03+G10 280 290 00000000 00000000 000000000 00000000 00000000 299 00000000 00000000 TTTTTTTT 00000000 \*\*\* **AAAAAA** A A A A A A A Wild type 00000000 00000000 00000000 AAAAAAA 9999999 **AAAAAAA** TTTTTTTT TTTTTTT 300 P1B 01-H1 300 P1B 01-E4 300 P2B 08-H3 300 13-D10 P3B 300 P4B 04-H3 300 P5B 14~C11 P4BSF 03-G10 300 310 TTTTTTT 00000000 A A A A A A A 000000000 **AAAAAAA** 000000000 00000000 000000000 Wild type A A A A A A A 00000000 00000000 \*\*\* 6666666 00000000 00000000 9999999 TTTTTTTT TTTTTTT P1B 01-H1 320 PIB 01-E4 320 P2B 08-H3 320 P3B 13-D10 320 P4B 04-H3 320 P4BSF 03-G10 330 320 90000000 90000000 00000000 00000000 AAAAAAA 00000000 Wild type 00000000 A A A A A A A A A A A A A A TTTTTTTT 00000000 00000000 000000000 00000000 9999999 00000000 **AAAAAAA** 66666666 00000000 TTTTTTT P1B 01-H1 P1B 01-E4 P2B 08-H3 340 13-D10 340 04-H3 340 P4BSF 03-G10 340 350 ナイナイナイエ -60000000 G G G 00000000 A A A A A A A Wild type A A A A A A A **AAAAAA** 000000000 TTTTTTTT 0000000 00000000 99999999 00000000 **AAAAAA** \*\*\* 666666 G 360 6666666 999999 P1B 01-H1 G 360 AAAAA AAAA P1B 01-E4 999 360 08-H3 360 P3B 13-D10 360 P4B 04-H3 360 P5B 14-C11 G P4BSF 03-G10



	360									370	)									
Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	A T A T A T A T A T	00000	00000000	TTTTTTTT	00000000	9999999	00000000	00000000	00000000	T T T T T T T T T T T T T T T T T T T	00000000	A A A A A A A	66666666	00000000	00000000	00000000	00000000	00000000	A A A A A A A	379 380 380 380 380 380 380
	380									390	)									
Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	9999999	000000	00000000	A A A A A A A	A A A A A A A	9999999	9999999	T T T T T T T T	00000000	A A A A	A A A A A A A	00000000	00000000	T T T T T T T T T T T T T T T T T T T	00000000	A A A A A A A	TTTTTTTT	00000000	00000000	399 400 400 400 400 400 400 400
	400									410										
Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10		000000	A A A A A A A	00000000	A A A A A A A	99999999	00000000	00000000	A A A A A A A	00000000	00000000	G G	00000000	9999999	9999999	9999999	00000000	00000000	00000000	419 420 420 420 420 420 420 420
	420									430										
Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	A A A A A A A	000000	A A A A A A A	T T T T T T T	00000000	00000000	9999999	00000000	T	***	00000000	9999999	T T T T T T	00000000	9999999	00000000	00000000	00000000	00000000	439 440 440 440 440 440 440
	440									450										
Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10		T T T T T T	A A A A A A A	00000000	66666666	T T T T T T T T T T T T T T T T T T T	00000000	00000000	00000000	99999	A A A A A A A	00000000	00000000	T T T T T T T T T T T T T T T T T T T	66666666	A A A A A A A	TTTTTTT	00000000	00000000	459 460 460 460 460 460 460
	460					<u> </u>	:			470						-				
Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	460 C T C T C T C T C T	T T T T T T		00000		00000	00000	A A A A A	0100000	亡	A A A A A A	G G	00000	00000	T T T T	С	666666	00000000	00000	479 480 480 480 480 480 480



														_							
	480										190										
Wild type P1B 01-H1 P1B 01-E4	9000	0000	0000	0000	0000	G G G	0000	A A A	0000	A A A		0000	6666	G G G	TTTT	TTTT	0000	0000	9999	A A A	499 500 500 500
P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	9999	00000	00000	00000	0000	90000	0000		00000	A	A A G A	GGGG	GGGG	G G G G	TTTT	TTTT	0000	9999	G G G	A A A	500 500 500 500
	<del>-</del>										<del></del>										
	500	)									510				-				_		540
Wild type	CC	A	C	C	G G	C	C	G G	A	C	T.	T	C	C	T	G	C	G	C	C	519 520
P1B 01-H1 P1B 01-E4	С	Α	С	С	G G	C	C	G G	A	C	T T	T	C	C	T T	G	C	G	C	C	520 520
P2B 08-H3 P3B 13-D10	C	A A	C C	C	G	С	С	G	Α	C	T	T.	С	С	Т	G	C	G	С	С	520
P4B 04-H3 P5B 14-C11	C	A A	C	C	G	00	C	G G	A A	C	T T	T T	C	C	T T	G G	C	G G	C	C	520 520
P4BSF 03-G10	č	Â	č	č	Ğ	č	č		Α	С	T	Т	С	С	Т	G	С	G	С	С	520
	520										530										
Wild type	A	G	A	T	С	С	С	A	С	С	Ġ	G	G	T	T	C	G	G	c	ç	539
P1B 01-H1	A A	G	A A	T T	C	C	C	A	C	C	G G	G	G	T T	T	C	G G	G G	C	C C	540 540
P1B 01-E4 P2B 08-H3	Α	G	Α	τ	С	С	С	Α	С	С	G	G	G	T T	T T	C	G G	G	C	C	540 540
P3B 13-D10 P4B 04-H3	A A	G	A	T	C	C	C	A	C	C	G G	G	G	τ	Τ	С	G	G	С	С	540
PSB 14-C11	A	G	A	T	C	C	C	A	C	C	G	G	G	T	T	C	G	G	C	C	540 540
P4BSF 03-G10	A	٠. 	_		_																
	540	)									550 						_		_		650
Wild type	G	G	C	G	A	G	G	C	A	G	T	C	C	T	C	T T	c	C	G G	G G	559 560
PIB 01-E4	G	G	C	G	Α	G	G G	C	A	G	T	CC	C	T	C	T T	C	C	G	G G	560 560
P2B 08-H3 P3B 13-D10	G G	G	C	G	A	G G	G	С	Α	G	Т	С	С	Т	С	Т	С	С	G	G	560
P4B 04-H3	G	G	C	G	A	G	G	C	A	G	T	C	C	T	C	T	C	C	G	G G	560 560
P5B 14-C11 P4BSF 03-G10	G			_																_	
	G	G	С	G	Â	Ğ	G	č	Â	G	Ť	č	č	Ť	С	T	С	С	G	G	560
	-			G 						G		С					с —	С	G	<u></u> -	560
Wild type	566 -G		C 	G			G		A A	G	570 Å	G	C	C	C	T 	G	G	<u>с</u>	G	579
Wild type	566 1G	CC	Ť	G G	A G G	G T T	G	C A A	A A A	G	570 A A	C G G	C	T C C	C	T 					
	56-G G G	0000	T T T	6 6 6	A G G G	G T T T	G CCCC	C A A A A	A	0000	570 A A A A	0000	0000	CCCC	TTTT	CCCC	9999	GGGG	0000	9999	579 580 580 580
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10	56-16 6 6 6 6	00000	T T T T	G G	A G G G	G T T	G	C A A	A A A	000	570 A A A	0000	000	CCC	TTT	000000	000000	66666	000000	999999	579 580 580 580 580 580
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11		0000000	T T T T T T T T	0000000	A   GGGGGGG	G TTTTTTT	0000000	C	A	0 000000	T 570 A A A A A A	0 0 0 0 0 0 0	0000000	CCCCCCC	C T T T T T T T T T T T T T T T T T T T	CCCCCCC	0000000	999999	00000	99999	579 580 580 580 580
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3	-8-1000000 -8-10000000	000000	TTTTTT	99999	A   GGGGGG	G TTTTTT	000000	CAAAAA	A	000000	570 A A A A A A	000000	0 000000	CCCCCC	TTTTTT	000000	000000	66666	0000000	9999999	579 580 580 580 580 580 580
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11	-6	00000000	T T T T T T T T	0000000	A   GGGGGGG	G TTTTTTT	0000000	C	A	00000000	T 570 A A A A A A A A A A A A A A A A A A A	00000000	00000000	CCCCCCC	TTTTTTT	CCCCCCCC	00000000	6666666	00000000	9999999	579 580 580 580 580 580 580 580
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	-55-100000000 F55-10	CCCCCCC	TTTTTTT	GGGGGGG	A GGGGGGGG	G T T T T T T T T T T T T T T T T T T T	GCCCCCCC	CAAAAAAA	A	000000000	T -570 A A A A A A A A S -50 C	C GGGGGGGG	C CCCCCCC T	CCCCCCCC	C	CCCCCCC	0000000	999999	0000000	9999999	579 580 580 580 580 580 580
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	- F6-166666666 F8-1666	00000000	TTTTTTTCCCC	GGGGGGG	A	G TTTTTTTT AAAA	CCCCCCCC	C AAAAAAA CCCC	A	000000000 000	T -570 A A A A A A A A F 59 C C C	C GGGGGGGG TTT	C CCCCCCCC TTT	T CCCCCCCC CCC	C C C C	CCCCCCCC	GGGGGGG	GGGGGGGG	000000000	000000000	579 580 580 580 580 580 580 580 580 580
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10  Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3	-6-100000000 F8-10000	00000000 0000	TTTTTTTCCCCC	GGGGGGG	A	G TTTTTTTT A A	CCCCCCCC	C AAAAAAA CC	A	000000000	T -570 A A A A A A A A 590 C C	CGGGGGGG	CCCCCCCC	T CCCCCCCC CCCCC	C TTTTTTTT CCCCC	CCCCCCCC TTTTT	GGGGGGG	GGGGGGGG	000000000 000000	000000000 00000	579 580 580 580 580 580 580 580 580 600 600 600
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10  Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3	F85-100000000 F85-100000	00000000 000000	TTTTTTTCCCCCC	GGGGGGGG	A	G TTTTTTTT AAAAAA	G CCCCCCC TTTTTT	C AAAAAAA CCCCCC	A	00000000 000000	T -70 AAAAAAA -99 -000000	C GGGGGGGG TTTTTT	C CCCCCCC TTTTTT	T   00000000   0000000	C TTTTTTTT CCCCCC	CCCCCCCC	GGGGGGG	GGGGGGGG	000000000 0000	000000000000000000000000000000000000000	579 580 580 580 580 580 580 580 580 600 600
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10 Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10	F65-1000000000 F8-100000		TTTTTTTCCCCCC	GGGGGGG	A   GGGGGGGG	G TTTTTTTT AAAAA	G CCCCCCC TTTTT	C AAAAAAA CCCCC	A	0 0000000 00000	T -570 AAAAAAA -59 - CCCCCCC	C GGGGGGGG TTTTT	C CCCCCCC TTTTT	T   CCCCCCCC   CCCCCC	C TTTTTTTT CCCCC	CCCCCCCC TTTTT	GGGGGGG	GGGGGGGG	00000000 000000	000000000 000000	579 580 580 580 580 580 580 580 600 600 600 600 600



•																					
	600										610										
Wild type	A	G	c	G	G	CT	AI	G	c	A	८	C	G	G	T	A	c	Ğ	C	A	619
P1B 01-H1	Α	G	С	G	G	C,	G	G	C	Α	C	C	G	G	T	Ā	C	G	C	A	620
P1B 01-E4	A	G	C	G	G	C	G G	G	C	A	C	C	G	G	T	A	č	G	C	A	620 620
P2B 08~H3 P3B 13~D10	A	G	č	G	G	c	G	G	č	Â	č	č	Ğ	G	Ť	A	č	Ğ	č	Α	620
P4B 04-H3	A	Ğ	C	G	G	C	G	G	C	Α	C	C	G	G	Ţ	Ā	C	G	C	A	620
P5B 14-C11	A	G	C	G	G	C	G	G	C	A	É	C	G	G	T	A	C	G	C	A	620 620
P4BSF 03-G10	Α	G	С	G	G	С	G	G	C	^	لـلـا	Ü	•	•	•						OLU
	620	1									630										
Wild type	G	Α	A	T	T	CI	Ā	c	T	G	G		C	Ţ	Ċ	G	C	T	G	G	639
P1B 01-H1	G	A	A	T T	T	C	A A	C	T	G	G.	G	C	T	C	G	c	T	G	G	640 640
P1B 01-E4 P2B 08-H3	G	Â	Â	Ť	÷'		Â	č	Ť	Ğ	Ğ	Ğ	Č	Ť	С	Ğ	C	T	G	Ğ	640
P3B 13-D10	G	Α	Α	Τ	T	T	Α	C	Τ.	.G	G	G	C	Ţ	C	G	C	Ţ	G	G	640
P4B 04-H3	G	A	A	T T	T T	T	A A	C	T	G	G	G	C	T	C	G	C	T T	G	G	640 640
P5B 14-C11 P4BSF 03-G10	G G	A	Â	Ť	Ť	τ (	Î	č	ή	Ğ		Ğ	c	Ť	č	Ğ	č	Ť	Ğ	Ğ	640
	640										650										
Wild type	<del>_</del>	G	Ť	c	G	c	T	G	A	A	亡	A	G	С	G	A	G	G	G	T	659
P1B 01-H1	A	Ğ	Т	C	G	С	τ	G	Α	Α	С	A	G	C	G	Ā	G	G	G	Ţ	660
P1B 01-E4	A	G	Ţ	C	G	C	T T	G G	A	A	C	A	G.	C	G	A	G G	G	G	T	660 660
P2B 08~H3 P3B 13-D10	A	G	T	C	G	č	÷	G	Â	Â	č	A	Ğ	č	Ğ	A	Ğ	Ğ	Ğ	Ť	660
P4B 04-H3	A	Ğ	τ	С	G	С	Т	G	Α	Α	С	A	G	င္	G	A	G	G	G	Ţ	660
P5B 14-C11	A	G	Ţ	C	G	C	T T	G	A	A	C	A	G	씾	G	A	G	G	G	T T	660 660
P4BSF 03-G10	Α	G	Τ	С	G	C	1	G	^	^	Ÿ	^	٥	٠	_	′•	Ū	_	_		
	660	)									670							_			670
Wild type	660	С	C	G	c	G	c	G	c	τ	670 +	С	A	A	C	G	C	CC	A	Ā	679 680
Wild type	660 G	CC	С	G	С	G	С	GGG	CCC		670		AAA	A A A	CCC	GGG	000	CCC	AAA	A A A	679 680 680
P1B 01-H1 P1B 01-E4	660	0000	CCC		CCC	G G	000	G G	000	T T T	670 T T T	0000	A A A	A A A	CCC	G G G	CCC	CCC	A A A	A A	680 680 680
P1B 01-H1	90000	00000	0000	G G G	0000	G G G	0000	G G G G	0000	TTTTTT	670 T T T T	00000	A A A	AAAA	0000	G G G	0000	0000	AAAA	A A A	680 680 680 680
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3	99999999	000000	00000	G G G G	00000	9999	00000	99999	00000	TTTTT	670 T T T	0000	A A A	A A A	CCC	G G G	CCC	CCC	A A A	A A	680 680 680
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10	90000	00000	0000	G G G	0000	G G G	0000	G G G G	0000	TTTTTT	670 T T T T T T	000000	A A A A	A A A A	00000	9999	00000	00000	A A A A	A A A A	680 680 680 680 680
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11	4 00000000 -	00000000	000000	GGGGGG	000000	666666	000000	GGGGGGG	000000	T T T T T T T	670 T T T T T T T T T	00000000	A A A A A	A A A A A	000000	999999	000000	000000	A A A A A	A A A A A	680 680 680 680 680 680
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	66-60000000 -88-1	00000000	0000000	666666	0000000	999999	000000	GGGGGGG	000000	T T T T T T T	670	00000000	A A A A A	A A A A A	000000	999999	0000000	0000000	A A A A A A C	A A A A A	680 680 680 680 680 680 680
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	4 00000000 -	00000000	000000	0000000	000000	0000000 00	0000000 00	00000000	CCCCCCC	TTTTTTGGGG	670 TTTTTTTT 690 G	00000000	AAAAAA CC	A A A A A A A A A A A A A A A A A A A	0000000	0000000	0000000 00	0000000 00	AAAAAA	A A A A A A A A A	680 680 680 680 680 680 680
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	000-84-00000 -84-000	CCCCCCCC	CCCCCCC	00000000	0000000 000	0000000 000	0000000 000	00000000	CCCCCCC	TTTTTTTGGGG	670 TTTTTTT G90 GGG	000000000	AAAAAA CCC	A A A A A A A A A	CCCCCCC	00000000	0000000 000	0000000 000	AAAAAA CCC	AAAAAA   AAA	680 680 680 680 680 680 680 699 700 700
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10 Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3	9-100000000 -8-10000	CCCCCCCCC	CCCCCCC	0000000 0000	0000000 0000	0000000 0000	0000000 0000	00000000 0000	CCCCCC AAAA	TTTTTTT	670 T T T T T T T T T T G90 G G G	000000000000000000000000000000000000000	AAAAAA CC	A A A A A A A A A A A A A A A A A A A	0000000	0000000	0000000 00	0000000 00	AAAAAA	A A A A A A A A A	680 680 680 680 680 680 680
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10  Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10	000-84-00000 -84-000	CCCCCCCC	CCCCCCC	00000000	0000000 000	0000000 000	0000000 000	00000000	CCCCCCC	TTTTTTTGGGG	670 TTTTTTT G90 GGG	0000000 0000000	AAAAAA CCCCCC	A A A A A A A A A A A A A A A A A A A	CCCCCCC		0000000 0000000	0000000 0000000	AAAAAA OOOOOO	AAAAAA     AAAAA	680 680 680 680 680 680 680 700 700 700 700
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10 Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3	8-10000000 -8-10000000	CCCCCCCC TTTTTT	CCCCCCC	0000000 0000000	0000000 0000000	00000000 0000000		00000000 0000000	CCCCCC AAAAAA	TTTTTTT	670 T T T T T T T T T G90 G G G G G	00000000 00000000	AAAAAA GGGGGGG	AAAAAA	CCCCCCC		0000000 0000000	0000000 0000000	AAAAAA CCCCCC	AAAAAA   AAAAAA	680 680 680 680 680 680 699 700 700 700 700 700
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10 Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3	8-10000000 -88-1000000	CCCCCCCC	CCCCCC AAAAA	0000000 000000	0000000 0000000	0000000 0000000		0000000 000000	CCCCCC AAAAA	TTTTTTTGGGGGG	670 T T T T T T T T T G90 G G G G G	0000000 0000000	AAAAAA CCCCCC	A A A A A A A A A A A A A A A A A A A	CCCCCCC		0000000 0000000	0000000 0000000	AAAAAA OOOOOO	AAAAAA     AAAAA	680 680 680 680 680 680 680 700 700 700 700
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10  Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11	8-10000000 -8-10000000	CCCCCCC TTTTTTT	CCCCCCC	0000000 0000000	0000000 0000000	00000000 0000000		00000000 00000000	CCCCCC AAAAAA	TTTTTTT	670 T T T T T T T T T T T T T T T T T T T	00000000 00000000	AAAAAA CCCCCCCC	AAAAAA	CCCCCCC		0000000 0000000	0000000 0000000	AAAAAA CCCCCC	AAAAAA   AAAAAA	680 680 680 680 680 680 680 700 700 700 700 700 700
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10  Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10		CCCCCCC TTTTTTT	CCCCCCC	0000000 0000000	0000000 00000000	00000000 00000000		00000000 0000000000	CCCCCC AAAAAAA T	TTTTTTT GGGGGGGG	670 TTTTTTTTTTTGGGGGGGGGG	00000000 00000000	AAAAAA CCCCCCCC G	AAAAAAA C	CCCCCCC	GGGGGGG CCCCCCC A	0000000 00000000	0000000 00000000 0	AAAAAA CCCCCCCC G	444444   A444444   C	680 680 680 680 680 680 699 700 700 700 700 700 700
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10  Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11	66-60000000 F88-600000000 F8-100	CCCCCCC TTTTTTTT CC	CCCCCCC AAAAAAA TT	00000000 00000000 00	0000000 0000000 00	00000000 00000000			CCCCCC AAAAAAA TT	TTTTTTT GGGGGGGG	670 TTTTTTT - 690 GGGGGGG - 711 CC	00000000 00000000 00	AAAAAA CCCCCCCC GG	AAAAAAA CC	CCCCCCC TTTTTTTT GG	GGGGGGG CCCCCCC AA	CCCCCCC CCCCCCC AA		AAAAAA CCCCCCCC GG	AAAAAA CC	680 680 680 680 680 680 680 700 700 700 700 700 700 700 700 700
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4ESF 03-G10  Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4ESF 03-G10  Wild type P1B 01-H1 P1B 01-E4	66-66666666666666666666666666666666666	CCCCCCCC TTTTTTTT CCC	CCCCCCC AAAAAAA TTTT		0000000 00000000 000	00000000 00000000 000			CCCCCC AAAAAAA TTT	TTTTTTT GGGGGGGG	670 TTTTTTT	000000000000000000000000000000000000000	AAAAAA CCCCCCCC GGG	AAAAAAA CC	CCCCCCC	GGGGGGG CCCCCCC AAA	CCCCCCC CCCCCCC AA		AAAAAA CCCCCCCC G	AAAAAA CCC	680 680 680 680 680 680 699 700 700 700 700 700 700
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10  Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10  Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3	66-60000000 F88-600000000 F8-100	CCCCCCC TTTTTTTT CC	CCCCCCC AAAAAAA TTTTT	00000000 00000000 00	0000000 00000000 0000	00000000 00000000			CCCCCCC AAAAAAA TTTTT	TTTTTT GGGGGGGG	670 TTTTTTTT F99 GGGGGGGG 71 CCCCC	000000000000000000000000000000000000000	AAAAAA CCCCCCCC GGGGG	AAAAAAA CCCCC	CCCCCCC	GGGGGGG CCCCCCC AAAAA	CCCCCCC CCCCCC AAAAA		AAAAAA CCCCCCCC GGGGG	AAAAAAA CCCCC	680 680 680 680 680 680 680 699 700 700 700 700 700 700 700 700 700 7
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10  Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10  Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3	6	CCCCCCC TTTTTTTT CCCCCC	CCCCCCC AAAAAAA TTTTTT		0000000 00000000 0000000	0000000 0000000 0000000			CCCCCCC AAAAAAA TTTTTT	TTTTTTT GGGGGGGG GGGGGGG	670 T T T T T T T T GG G G G G G G G G G G	00000000 00000000 0000000	AAAAAA CCCCCCCC GGGGGG	AAAAAAAA CCCCCC	CCCCCCC	GGGGGGG CCCCCCC AAAAA	CCCCCCC CCCCC AAAAA		AAAAAA CCCCCCCC GGGGGG	AAAAAAAAA CCCCCC	680 680 680 680 680 680 680 700 700 700 700 700 700 700 720 720 72
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10  Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P5B 14-C11 P4BSF 03-G10  Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10	66-66666666 F8-166666666 F8-166666	CCCCCCC TTTTTTTT CCCCCCC	CCCCCCC AAAAAAA TTTTTT						CCCCCCC AAAAAAA TTTTT	T T T T T T T T G G G G G G G G G G G G	GOGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	000000000000000000000000000000000000000	AAAAAA CCCCCCCC GGGGGGG	AAAAAAA CCCCC	CCCCCCC	GGGGGGG CCCCCCC AAAAAA	CCCCCCC CCCCCC AAAAAA		AAAAAA CCCCCCCC GGGGG	AAAAAAAAAA CCCCCCC	680 680 680 680 680 680 680 699 700 700 700 700 700 700 700 700 700 7



	-		_		_						7										
Wild type	720 G	С	С	T	A	Ċ	A /	Ā	G	G	730 <del>1</del>	c	A	A	c	G	G	С	G	T	739
P1B 01-H1	G	CCC	CCC	T T	A	С	A A	A (	G	G G	T T	C	A A	A A	C	G G	G G	C	G G	T T	740 740
P1B 01-E4 P2B 08-H3 P3B 13-D10		C	C	T	A	-		-	_	G G	T T	C	A	A	C	G	G	C	G G	T	740 740
P4B 04-H3 P5B 14-C11	G G	C	T	T	A A	-	A	A (	G		T	C	A	A	CC	G	G	CC	G	T	740 740
P4BSF 03-G10	-	С	С	Τ	Α	с —	A /	A (	G 	G —	T	с 	A 	A 	с —	G 	G 	с —	G 	T —	740
	740				<del>-</del>		<del>, .</del>	T /	Ā	C	750	·c	С	Т	G	G	A	G	c	G	759
Wild type	G G	AAA	G	000	T T T		т -	Ť.	Α	C	Ť, : T		Č	Ť	Ğ	Ğ	A	G	CC	G	760 760
P1B 01-E4 P2B 08-H3	G	A	G	CCC	T T	Α	т :	T	Α	Č	Ť T	Č	C	T	G	G G	A	G	C	G G	760 760
P3B 13-D10 P4B 04-H3	G	Â	G	CCC	Ť T	Α	Т Т	Τ,	Α	C	T T	C	C	T	G G	G G	A A	G G	C	G G	760 760
P5B 14-C11 P4BSF 03-G10	Ğ	Ä	Ğ	č	T	Α			A	С 	Т	С	C	T	G	G	A	G	с —	G 	760
	760	)									770							_			770
Wild type	G	T	T	C	C	Т	C	G	С	C	G	000	TTT	GG	A A	000	CCC	A A	A A A	CCC	779 780 780
P1B 01-E4 P2B 08-H3	G	T	T	CC	CC	T T	C	G	С	C C C	G G	000	T T	G	A	CCC	CCC	Â	Ā	CC	780 780
P3B 13-D10 P4B 04-H3	G	TTT	T T T	CCC	000	T T	C	G	С	CC	G	C	T T	G	A	CC	CC	A	A	CC	780 780
P5B 14-C11 P4BSF 03-G10	G G	Ť	Ť	č	č	Ť				č	Ğ	Ċ	T	G	Α	С	С	Α	Α	С	780
	-																				
	780	)									790									_	700
Wild type	780 + T	T T	C	C	T T	C	-	A		C	- - -	G G	A	G	CC	GG	A	000	GGG	CCC	799 800
P1B 01-H1 P1B 01-E4	780 + T T T	TTTT	CCC	CCC	T T T	CCC	G A	A A A	T T T	CCCC	0000	G G G	A A A	G G	000	G G	A A A	000	G G	C C C	800 800 800
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10	780 T T T T T	T T T T	00000	00000	T T T T T	00000	666	A A A	T T T T	000000	-000000	9999	A A A A	9999	00000	9999	A A A A	00000	9999	00000	800 800 800 800 800
P1B 01-H1 P1B 01-E4 P2B 08-H3	780 1 T T T T	T T T T	0000	0000	T T T	0000	00000	A A A A	T T T	00000	-00000	999999	A A A	99999	0000	9999	A A A	0000	G G G	0000	008 008 008 008
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11	780 1 1 1 1 1 1 1	T T T T T T T	000000	000000	T T T T T T	000000	00000	A A A A	T T T T T	00000000	-0000000	999999	A A A A A	99999	000000	99999	A A A A A	000000	99999	0000000	800 800 800 800 800 800
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11	780 1 T T T T T T T T T T T T T T T T T T T	T T T T T T T T T T T T T T T T T T T	CCCCCCC	0000000	TTTTTTT	CCCCCCC	0000000	A A A A A A A	T T T T T	00000000	-00000000-	00000000	A A A A A A A C C C	G G G G G G T T	0000000 00	9999999	A A A A A A A A T T	0000000 00	0000000	0000000 00	800 800 800 800 800 800 800 800
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10  Wild type P1B 01-H1 P1B 01-E4	780 1 T T T T T T T T T T T T T T T T T T T	T T T T T T T T	0000000	0000000	TTTTTTT	0000000	0000000	A A A A A A G G G G	TTTTTT	00000000 0000	-0000000 -10-0000	99999999   9999999	AAAAAA CCCC	GGGGGGG	0000000 0000	0000000	AAAAAA TTTT	0000000 0000	00000000	0000000 0000	800 800 800 800 800 800 800 819 820 820 820
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10  Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10	780 T T T T T T T T T T T T T T T T T T T	T T T T T T T T T T T T T T T T T T T	CCCCCCC	0000000 000	TTTTTTTCCCC	CCCCCCC	0000000	AAAAAA GGGGGG	T T T T T T T G G G G G G	00000000 000000	-0000000 -10-000000	0000000 000000	AAAAAA CCCCCC	GGGGGGG	0000000 0000000		AAAAAA TTTTTT	0000000 000000	0000000 0000000	0000000 000000	800 800 800 800 800 800 800 819 820 820 820 820 820
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10  Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11	780 T T T T T T T T T T T T T T T T T T T	TTTTTTT ) TTTTT	CCCCCCC	0000000 000000	TTTTTTT CCCCC	CCCCCCC	0000000 000000	AAAAAA GGGGGGG	T T T T T T T G G G G G	00000000 00000	-0000000 -8-GGGGG	0000000 000000	AAAAAA CCCCC	GGGGGGG	0000000 000000	000000 000000	AAAAAA TTTTT	0000000 00000	0000000 0000000	0000000   00000	800 800 800 800 800 800 800 819 820 820 820 820
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10  Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3	780-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TTTTTTT	CCCCCCC	0000000 0000000	TTTTTTT CCCCCC	CCCCCCC	0000000	AAAAAA GGGGGGG	TTTTTT GGGGGGG	00000000 00000000	-00000000 -10-0000000	0000000 0000000	AAAAAA CCCCCCC	GGGGGGG	0000000 0000000	0000000 0000000	AAAAAA TTTTTT	0000000 0000000	0000000 0000000		800 800 800 800 800 800 800 820 820 820
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10  Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11	780 1 T T T T T T T T T T T T T T T T T T T		CCCCCCC		CCCCCCCCCCCC	CCCCCCC	000000000	AAAAAA GGGGGGGG	TTTTTT GGGGGGGG	00000000 00000000	-CCCCCCC -8-00000000 -83-0	GGGGGGG   CCCCCCC   A	AAAAAA CCCCCCC	GGGGGGG TTTTTTTT C	0000000 00000000 0	0000000 0000000	AAAAAA TTTTTT	CCCCCC CCCCCC A	0000000 0000000		800 800 800 800 800 800 800 820 820 820
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10  Wild type P1B 01-H1 P4BSF 03-G10  Wild type P1B 04-H3 P5B 14-C11 P4BSF 03-G10  Wild type P1B 04-H3 P5B 14-C11 P4BSF 03-G10	780 T T T T T T T T T T T T T T T T T T T	TTTTTTT O GGG	CCCCCCC		TTTTTTT CCCCCCCC CCC	C C C C C C C T T T T T T T T T T T T T	GGGGGGG	AAAAAA GGGGGGGG CC	TTTTTT GGGGGGGG	00000000 00000000	00000000 -81-000000000 -88-	GGGGGGG CCCCCCC AAA	AAAAAA CCCCCCCC AAA	GGGGGGG			AAAAAA TTTTTTTT CCCC	CCCCCCC CCCCCCC AAAA			800 800 800 800 800 800 800 820 820 820
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10  Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10  Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10	78-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TTTTTTT O GGGGG	CCCCCC TTTTTTTT AAAAA		TTTTTT CCCCCCC CCC	C C C C C C C T T T T T T T T T T T T T	GGGGGGG CCCCCCC TTTT	AAAAAA GGGGGGGGG CCCCC	TTTTTTT GGGGGGGG	00000000	-CCCCCCC -10-GGGGGGGG -83-GGGGG	GGGGGGG CCCCCCC AAAAA	AAAAAA CCCCCCCC AAAAA	GGGGGGG TTTTTTTT CCCCCC			AAAAAA TTTTTTTT CCCCCC	CCCCCCC CCCCCCC AAAAAA			800 800 800 800 800 800 800 820 820 820
P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10  Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P5B 14-C11 P4BSF 03-G10  Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P5B 14-C11 P4BSF 03-G10	780 T T T T T T T T T 800 C C C C C C C C C C C C C C C C C C	TTTTTTT O GGGGGGG	CCCCCC TTTTTTTT AAAA		TTTTTTT CCCCCCCC CCCCCC	CCCCCCC TTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	GGGGGGG CCCCCCC TTTTTT	AAAAAA GGGGGGGGG CCCCC	TTTTTTT GGGGGGGGG	CCCCCCC CCCCCC AAAAA	-0000000 -81-00000000 -88-0000000	GGGGGGG CCCCCCC AAAAA	AAAAA CCCCCCCC AAAAA	GGGGGGG TTTTTTTT CCCCCCC			AAAAAA TTTTTTTT CCCCCCC	CCCCCC CCCCCCC AAAAAA			800 800 800 800 800 800 800 820 820 820



	840										850	)									
Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	100000000	00000000	00000000	A A A A A A A	A A A A A A A	00000000	00000000	A A A A A A A	0000.0000	9999999	00000000	00000000	00000000	TTTTTTTT	00000000	00000000	T T T T T T T T	00000000	0000000	6666666	859 860 860 860 860 860 860
	860	)									870	,									
Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	-00000000	A A A A A A A	00000000	00000000	T	6666666	00000000	A A A A A A A	9999999	T T T T T T T T	T T T T T T T T T T T T T T T T T T T	00000000	99999999	00000000	A A A A A A A	00000000	00000000	TTTTTTTT	9999999	9999999	879 880 880 880 880 880 880 880
	880	)									890	ļ.									
Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	000000000	00000000	A A A A A A A	T T T T T T T T T T T T T T T T T T T	0000000	0000000	T T T T T T T T T T T T T T T T T T T	00000000	A A A A A A A	T T T T T T T T T T T T T T T T T T T	00000000	00000000	00000000	00000000	00000000	A A A A A A A	00000000	A A A A A A A	A A A A A A A	00000000	900 900 900 900 900 900 900
	900	)									910										
Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	T T T T T T T T T T T T T T T T T T T	A A A A A A A	00000000	00000000	9999999	6666666	A A A A A A A	TTTTTTTT	9999999	A A A A A A A	***	00000000	00000000	A A A A A A A	00000000	00000000	T T T T T T T T T T T T T T T T T T T	99999999	00000000	A A A A A A A	919 920 920 920 920 920 920 920
	920	,									930									_	
Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	-00000000	00000000	A A A A A A A	6666666	6666666	T T T T T T T T T	66666666	A A A A A A A	A A A A A A A	00000000	00000000	A A A A A A A	00000000	9999999	TTTTTTT	00000000	TTTTCCT	TTTTTTT	00000000	00000000	939 940 940 940 940 940 940 940
	940	)					ţ	-			950				•						
Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	66666	00000000	000000	TTTTTTTTT	00000	A A A A	000000	000000	A A A A	G G G	000000	0000	T T T T T T T T T	9999999	T. T T	T T T T T T	00000000	G	A A A A A	G G G	959 960 960 960 960 960 960



•	960 970	
Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	A C C A G C C C G G T C A G C G T C T A 9  A C C A G C C C G G T C A G C G T C T A 9  A C C A G C C C G G T C A G C G T C T A 9  A C C A G C C C G G T C A G C G T C T A 9  A C C A G C C C G G T C A G C G T C T A 9  A C C A G C C C G G T C A G C G T C T A 9  A C C A G C C C G G T C A G C G T C T A 9  A C C A G C C C G G T C A G C G T C T A 9  A C C A G C C C G G T C A G C G T C T A 9	79 80 80 80 80 80 80 80
	980 990	
Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	C C G C C A G C A C G C C A A C C G C C 10 C C G C C A G C A C G C C A A C C G C C 11 C C G C C A G C A C G C C A A C C G C C 11 C C G C C A G C A C G C C A A C C G C C 11 C C G C C A G C A C G C C A A C C G C C 11 C C G C C A G C A C G C C A A C C G C C 11 C C G C C A G C A C G C C A A C C G C C 11 C C G C C A G C A C G C C A A C C G C C 11	99 000 000 000 000 000 000
	1000 1010	
Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	T G A A G A A C G C C A G C C T G T A G 10 T G A A G A A C G C C A G C C T G T A G 10 T G A A G A A C G C C A G C C T G T A G 10 T G A A G A A C G C C A G C C T G T A G 10 T G A A G A A C G C C A G C C T G T A G 10 T G A A G A A C G C C A G C C T G T A G 10 T G A A G A A C G C C A G C C T G T A G 10	019 020 020 020 020 020 020 020
	1020 1030	
Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	GACCCCGGCCGGGGCCTCGG 10 GACCCCGGCCGGGGCCTCGG 10 GACCCCGGCCGGGGCCTCGG 10 GACCCCGGCCGGGGCCTCGG 10 GACCCCGGCCGGGGCCTCGG 10 GACCCCGGCCGGGGCCTCGG 10	039 040 040 040 040 040 040 040
Wild type P1B 01-H1 P1B 01-E4 P2B 08-H3 P3B 13-D10 P4B 04-H3 P5B 14-C11 P4BSF 03-G10	C C C G G G C C C	047 049 049 049 049 050 049